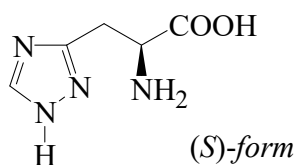




>>Entry Name: 2-Amino-3-(1*H*-1,2,4-triazol-3-yl)propanoic acid

Synonym(s): α -Amino-1*H*-1,2,4-triazole-3-propanoic acid, 9Cl. 1*H*-1,2,4-Triazole-3-alanine



CAS Registry Number: 10109-05-4

Molecular Formula: C₅H₈N₄O₂

Molecular Weight: 156.144

Accurate Mass: 156.064726

Percentage Composition: C 38.46%; H 5.16%; N 35.88%; O 20.49%

>>Variant: (*S*)-form

CAS Registry Number: 10463-73-7

Molecular Formula: C₅H₈N₄O₂

Molecular Weight: 156.144

Accurate Mass: 156.064726

Percentage Composition: C 38.46%; H 5.16%; N 35.88%; O 20.49%

Biological Source: Prod. by *Streptomyces* sp. KM-10329

Biological Use/Importance: Histidine antagonist

Physical Description: Cryst. (MeOH)

Melting Point: Mp 258-261° (dec.)

Optical Rotation: $[\alpha]_{\text{D}}^{18} -18$ (c, 1 in H₂O)

Solubility: BERDY SOL: Sol. H₂O; poorly sol. MeOH, hexane

UV: [neutral] λ_{max} 200 (); 255 () (MeOH) [neutral] λ_{max} 255 () (MeOH) (Berdy)

>>Variant: ($\pm$)-form

CAS Registry Number: 10103-98-7

Molecular Formula: C₅H₈N₄O₂

Molecular Weight: 156.144

Accurate Mass: 156.064726

Percentage Composition: C 38.46%; H 5.16%; N 35.88%; O 20.49%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 263-264° (dec.)

References:

Jones, R.G. *et al.*, *J.A.C.S.*, 1955, **77**, 1538-1540, (*synth*)

Schneider, F. *et al.*, *Hoppe Seyler's Z. Physiol. Chem.*, 1962, **327**, 74-85, (*synth*)

Imamura, N. *et al.*, *J. Antibiot.*, 1985, **38**, 1110-1111, (*isol, uv, ir, pmr*)

Ogrel, A.A. *et al.*, *Bioorg. Khim.*, 1993, **19**, 880-888, (*synth*)